

ObservationReport

ObservationID

17

on 2021-09-08 23:11

Object	M31
CommonName	Andromeda Galaxy
Alternate	NGC224
Description	Spiral Galaxy
Constellation	Andromeda
Visual Magnitude	0
Apparent Size	3.167° × 1°
Distance ► Object	2,45 Mly
RA-Coordinates	00h 43m 15s
DEC-Coordinates	+41° 16' 9"
WikiLink	https://en.wikipedia.org/wiki/Andromeda_Galaxy



20210908_M31_ZWOASI294_0001-03.JPG

Work Status	Published
Link ► Picture	M31_20210908
Quality	*****
Format:	Photo
Horizontal FoV [°]	1,8238
Vertical FoV [°]	1,2414
View Direction	E83,8~
Above horizon [°]	52,4~

Observation Start	2021-09-08T23:11:08	UTC +1h	Observation End	2021-09-08T00:08:06
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Observation Site	Llano des las Brujas	Country Code	ES
Province	La Palma	Elevation	1300
Site Coordinates	28° 37' N, 7° 50' E	Bortle Index	1

Sky Quality	1,33	Outside Temp. °C	2
Seeing Index 1	4	Seeing Index 2	2

Moon Phase	New	Moon Age [d]	
Moon Percent %		Distance ► Target	144~ 07
MoonRise		MoonSet	

Camera	ASI294MC PRO	Gain or ISO	120
Camera Angle	261,16	Camera Temp. °C	-10
Pixel Pitch [µm]	4,63		

Total Exposures	19	Exposure Time [s]	180
ActiveFrames	8	Total Time [min]	24

Optical Config.	Config116N	FocalLength [mm]	600
Short Descript.	TSO APO 90/600	Diameter [mm]	90
Type Of Build	APO Triplet Refractor	Aperture / f-stop	6,67
Brand	TS-Optics	DawesLimitLink	1,74 Arcsec
Additional Optics	50mm Extender	Optical Scale ["/px]	1,592
Filter	NONE		

GuideScope	Microspeed 50/200	Mount	iOptron iEQ45 Pro
PostProcessingSW	PixInsight, Photoshop	GuiderHW	ASiAirPro
GuiderSW	NONE	SessionControl	ASiAirPro

Work Folder [F:\FotosLibrary\ Astro\2021 Astro\M31\20210909 M31](#)

Remarks

I took these images on La Palma (see observation site) a couple of days before the new volcano on La Cumbre Vieja broke out. The observation site was only about 500m away from the later eruption site of the new volcano.

When evaluating the exposures next day I found that more than half of the exposures were blurred - which was cleared up when I learned that slight tremors occurred during the night, which were noticeable on the exposures. Fortunately, 8 of the 19 exposures were still usable and produced a

pretty good result.